

8MP 4K Panoramic Active Deterrence Smart Night Color Armor Ball

SKU: IP8MIAB-180-ADRB-NCV

- 2.8mm Fixed with 180° View Armor Ball
- 8MP 4K Resolution at 4096 (H) x 1860 (V)
- Color Illumination at 0.0005 LUX and 98ft IR
- Memory Card Slot up to 512GB
- IP67 Weatherproof and IK10 Vandal Resistance



NCV
SERIES



8MP / 4K IP



Active
Deterrence



180° View



Smart Intrusion
Prevention

4K Resolution

4K resolution captures images four times the pixel density of 1080P which means that the finer details, such as faces or smaller items can be viewed with more detail than traditional 1080P surveillance.

Active Deterrence

With built-in mic and speaker along with blue/red alarm light the IP8MIAB-180-ADRB-NCV paired with advanced intelligent perimeter protection provides active deterrence for unwanted intruders where you need it the most.

Panoramic Splicing

With advanced splicing algorithm, the IP8MIAB-180-ADRB-NCV deletes the overlapped area and splices multiple images to be a complete panorama. The field of view of the spliced image is 180°.

Edge Recording

Optional edge recording with an optional memory slot expandable up to 256GB.

Smart Intrusion Prevention

Utilizing machine learning and data intelligence, Smart Intrusion Prevention or SIP helps reduce false-alarm rates by allowing you to set up Cross Line Detection, Intrusion Detection, as well as Enter / Leave Area, all which can do any combination of human/vehicle/non-motor vehicle recognition. Smart Intrusion Prevention's detection rate of >95% helps you improve your perimeter protection, reduce false alarms while keeping you informed about the events that matter the most to you.

24/7 Night Color

The IP8MIAB-180-ADRB-NCV enables you to monitor your areas with 24/7 color video by adopting night-color technology. This camera provides clear, colorful video down to 0.0005 LUX before the built-in LED illuminator kicks on, providing a vivid, colorful image even in total darkness with a range of up to 131ft. By default, night-color technology will automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposing objects in the center of your image.

Spec Sheet: IP8MIAB-180-ADRB-NCV

8MP 4K Panoramic Active Deterrence Smart Night Color Armor Ball



Ultra Motion Detection

Utilizing machine learning and data intelligence, Ultra Motion Detection or UMD helps you filter out objects based on motion detection, detecting motion of specified object types in the image, and trigger an alarm when such motion is detected. UMD supports two different object types: Person and Vehicle. UMD provides a detection rate of >90% up to 49ft and is more efficient than traditional motion detection, further reducing false-alarms. Ultra Motion Detection can be configured to your full screen or specific area(s) for detection.

Starlight Technology

For challenging low-light applications, Starlight Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.0005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

People Counting

People counting is an intelligent feature that allows users to monitor and track the number of individuals entering or exiting a defined area. This is a versatile feature for various applications including retail analytics, crowd management, and security monitoring of public spaces.

Crowd Density

With deep learning algorithm, the IP8MIAB-180-ADRB-NCV can detect the crowd density on the image, and display it on heat map; it can detect people quantity and density in selected area and set threshold. When the number or density is larger or smaller than the threshold, it triggers linkage.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (130 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Automatic Network Replenishment (ANR) Technology

The IP8MIAB-180-ADRB-NCV when connected to an ANR compatible Network Video Recorder will automatically store video data on the internal memory card when the network is disconnected. After recovery to the network, the NVR automatically retrieves the video data stored on the camera.

Commercial Grade Equipment

Built for endurance, this all metal housing is rated IP67, which means it is protected from water and dust but is also vandal proof resistant rating of IK10. Mount this camera anywhere with it's 3-axis cable management bracket. Additional junction boxes and brackets are available for additional installation options, and help further protect your cables and connections.

NDAA Compliance

The John S. McCain National Defense Authorization Act (NDAA) is a United States federal law which specifies the budget, expenditures and policies of the U.S. Department of Defense. For Fiscal Year 2019, the NDAA Section 889, prohibits the U.S. government from procuring video and telecommunication equipment from certain Chinese companies and their subsidiaries. Some non government projects may require NDAA compliance if federal funding is being used.

ULTRA 265 Compression

Utilizing H.265 advanced video encoding, provides high-quality video while reducing the storage space needed to retain your video events. Users can add their own memory card to take advantage of its edge recording capabilities.

Product Specifications

CAMERA	
Max Resolution	8MP
Sensor	1/2.5" CMOS
Min. Illumination	Color: 0.0005 lux (F1.0, AGC ON) 0 Lux with light
Day/Night	IR-cut filter with auto switch (ICR)
Shutter	Auto/Manual, 1 ~ 1/100000s
Adjustment Angle	Pan: 0° ~ 360°, Tilt: 0° ~ 75°, Rotate: 0° ~ 360°
S/N	>52dB
WDR	130dB

LENS	
Focal Length	2.8 mm
Iris Type	Fixed
Iris	F1.0
Field of View (H)	180°
Field of View (V)	65°
Field of View (D)	180°
Lens Type	Fixed

Spec Sheet: IP8MIAB-180-ADRB-NCV

8MP 4K Panoramic Active Deterrence Smart Night Color Armor Ball



Product Specifications Cont.

DORI	
DORI Distance (Lens)	2.8mm
DORI Distance (Detect)	206.7ft
DORI Distance (Observe)	82.7ft
DORI Distance (Recognize)	41.3ft
DORI Distance (Identify)	20.7ft

ILLUMINATOR	
Supplemental Light	Dual Light
Illumination Distance (IR)	98ft
Illumination Distance (Warm Light)	98ft
IR On / Off Control	Auto / Manual
Wavelength	850 nm
Light On / Off Control	Auto / Manual

VIDEO	
Video Compression	Ultra 265; H.265; H.264; MJPEG
H.264 Code Profile	Baseline profile, Main profile, High profile
Frame Rate	Main Stream: 8MP (4096 * 1860), Max 20fps; Sub Stream: 2048 * 936, Max 20fps
Video Bit Rate	128 Kbps ~ 16 Mbps
U-code	Support
OSD	Up to 8 OSDs
Privacy Mask	Up to 4 areas
ROI	Up to 8 areas
Video Stream	Dual Streams

IMAGE	
Auto Scene Match (ASM)	Support (Only WDR)
White Balance	Auto; Outdoor; Fine Tune; Sodium Lamp; Locked; Auto2
Digital Noise Reduction	2D/3D DNR
Smart IR	Support
Flip	N/A

IMAGE CONT.	
Dewarping	N/A
HLC	Support
BLC	Support
Defog	Digital Defog
Image Stabilization	N/A

INTELLIGENT	
Smart Intrusion Prevention	Cross line detection, Intrusion detection, Enter area detection, Leave area detection (support false alarm filtering and the classification of human, non-motor vehicle and vehicle)
Recognition	N/A
Statistical Analysis	People Counting; Support People Flow Counting and Crowd Density Monitoring
Attribute Collection	SIP with color retrieval

EVENTS	
Basic Detection	Motion Detection; Ultra Motion Detection; Tampering Alarm; Audio Detection
General Function	Watermark; IP Address Filtering; Access Policy; ARP Protection; RTSP Authentication; User Authentication; HTTP Authentication; Alarm Input; Alarm Output

AUDIO	
Audio Compression	G.711U; G.711A
Audio Bitrate	64 Kbps
Two-way Audio	Support
Suppression	Support
Sampling Rate	8 KHz

STORAGE	
Edge Storage	Memory Card Slot up to 512 GB
Network Storage	ANR; NAS (NFS)

NETWORK	
Protocols	IPv4; IPv6; IGMP; ICMP; ARP; TCP; UDP; DHCP; PPPoE; RTP; RTSP; RTCP; RTMP; DNS; DDNS; NTP; FTP; UPnP; HTTP; HTTPS; SMTP; 802.1x; SNMP; QoS; SSL/TLS; SSH
Compatible Integration	ONVIF (Profile S, Profile G, Profile T); API; SDK

Spec Sheet: IP8MIAB-180-ADRB-NCV

8MP 4K 180 Panoramic Dual Lens Smart Night Color Armor Ball



Product Specifications Cont.

NETWORK CONT.	
User/Host	Up to 32 users. 3 user levels: administrator, common user and operator
Security	Password Protection; Strong Password; HTTPS Encryption; Export Operation Logs; Basic and Digest Authentication for RTSP; Digest Authentication for HTTP; TLS 1.2; WSSE and Digest Authentication for ONVIF
Client	Optiview VMSN, Optiview VMSN Mobile, Optiview Cloud VCS
Web Browser	Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above; Plug-in free live view: Chrome 57.0 and above, Firefox 58.0 and above, Edge 16 and above

INTERFACE	
Audio I/O	1 Input: impedance 35kΩ; amplitude 2V [p-p]; 1 Output: impedance 600Ω; amplitude 2V [p-p]
Alarm I/O	1/1
Serial Port	N/A
Built-in Mic	Built-in two mics
Built-in Speaker	Support
WIFI	N/A
Network	1 x RJ45 10M/100M Base-TX Ethernet
Video Output	N/A

CERTIFICATION	
EMC	CE-EMC (EN 55032, EN 61000-3-3, EN IEC 61000-3-2, EN 50130) FCC (FCC 47 CFR part15 B)
Safety	CE-LVD (EN 62368-1) CB (IEC 62368-1) UL/CUL (UL 62368-1, CAN/CSA C22.2 No. 62368-1)
Environment	CE-RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU)
Protection	IP67 (IEC 60529) IK10 (IEC 62262)

GENERAL	
Power	DC 12V±25%, PoE (IEEE 802.3af)
Power Consumption	Max 12.6W
Power Interface	Ø 5.5 mm coaxial power plug

GENERAL CONT.	
Dimensions	Ø5.1"x 4.3" (Ø x H)
Weight	1.9lb
Material	Metal
Working / Storage Environment	-22 °F ~ 140 °F, Humidity: ≤95% RH (non-condensing)
Surge Protection	4KV
Reset Button	Support
Web Client Language	20 Languages Traditional Chinese, English, Simplified Chinese, Polish, German, Russian, French, Korean, Dutch, Czech, Portuguese (Europe), Portuguese (Brazil), Japanese, Thai, Turkish, Spanish (Latin America), Spanish (Europe), Hungarian, Italian, Vietnamese

Spec Sheet: IP8MIAB-180-ADRB-NCV

8MP 4K Panoramic Active Deterrence Smart Night Color Armor Ball



Additional Products



OPTIVIEW'S VIDEO MONITORING SOFTWARE
Remote Monitoring



NVR8P8-2B-NCV
16MP 8 Channel 8 PoE 1U NVR with Analytics



IP5MIAB-180-NCV
5MP 180° Panoramic IP Armor Ball w/ Analytics



IP160P-NCV
Night Color 2x 4MP Wide Angle Bullet IP Camera



IP12F-NCV
12MP Ultra HD Fixed Fisheye Camera

Compatible Brackets



BKT-02
Wall Mount with Junction Box



BKT-04
Junction Box for Armor Dome Cameras

Dimensions

